

Hydrotalcite Mineral Data Pronunciation Guide



Updated weekly, for the collector, educator, and researcher since 1996

Extensive Inventory of very Rare Minerals

Visa and Mastercard are Welcome

General Information

☒ **Chemical Formula:** $\text{Mg}_6\text{Al}_2(\text{CO}_3)(\text{OH})_{16}\cdot 4(\text{H}_2\text{O})$

☒ **Composition:** Molecular Weight = 603.98 gm

Magnesium 24.14 % Mg 40.04 % MgO

Aluminum 8.93 % Al 16.88 % Al_2O_3

Hydrogen 4.01 % H 35.79 % H_2O

Carbon 1.99 % C 7.29 % CO_2

Oxygen 60.93 % O

100.00 % 100.00 % = TOTAL OXIDE

☒ **Empirical**

$\text{Mg}_6\text{Al}_2(\text{CO}_3)(\text{OH})_{16}\cdot 4(\text{H}_2\text{O})$

Formula:

☒ **Locality:**

Link to MinDat.org Location Data.

Search for Hydrotalcite Images

☒ **Images:**

**Image Not
Yet
Available**

Image not yet available on Webmineral.com
Try searching images.google.com for mineral pictures. Caution: The images retrieved may not be appropriate.

Crystallography

☒ **Axial Ratios:** a:c = 1:7.52854

☒ **Cell Dimensions:** a = 6.13, c = 46.15, Z = 3; V = 1,501.84 Den(Calc)= 2.00

☒ **Crystal System:** Trigonal - Hexagonal Scalenohedral H-M Symbol (-3 2/m) Space Group: R3m-

☒ **X Ray Diffraction:** By Intensity(I/I_0): 7.69(1) 3.88(0.7) 2.58(0.2)

Physical Properties

☒ **Cleavage:** [???] Perfect

☒ **Color:** colorless or white.

☒ **Density:** 2.06